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Dr. Newell and his co-workers published 40 papers during the period of the support! They were predominantly in the areas of nonlinear optics and fluid turberlence. Dr. Newell and his colleagues are world leaders in the analysis of the type of nonlinear PDE's which regularly occur in these two physical areas. Moreover, 3 PhD students were produced and many visitors/postdocs were supported who could interact with the University of Arizona researchers. The growing recognition of the University of Arizona group has well repaid the Air Force investment.

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The following were a result of the research conducted on AFOSR 83-0227, "Nonlinear Behavior in Optical and Other Systems."

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